

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0544 Reclamation District No. 0544 Upper Roberts Island	Overall LMA Rating	Total LMA Miles						
	U	10.33						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	8.04	0.57	10.32	99.90%	0.06			
Trim / Thin Trees	0.09		0.09	0.87%				
Encroachments	0.05	0.01	0.09	0.87%	0.14	0.15		
Animal Control	0.29		0.29	2.81%				
Slope Stability	0.07		0.07	0.68%				
Erosion / Bank Caving	0.02	0.01	0.06	0.58%				
Crown Surface / Depressions / Rutting	0.63		0.63	6.10%				
Flood Preparedness & Training	0.10		0.10	0.97%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.39%				
<i>Channels</i>								
Erosion / Bank Caving		0.01	0.04	0.39%				
Encroachments						0.01		
<i>Supplemental</i>								
DWR Erosion Survey	0.05	0.03	0.17	1.65%				
<i>LMA Totals:</i>	9.34	0.64	11.90	115.20%	0.20	0.16	0.00	0.00

Unit No. 01 San Joaquin River LB RD0544	Overall Unit Rating	Total Unit Miles						
	U	6.11						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	3.53	0.07	3.81	62.36%	0.06			
Trim / Thin Trees	0.07		0.07	1.15%				
Encroachments	0.04	0.01	0.08	1.31%	0.06	0.09		
Animal Control	0.14		0.14	2.29%				
Slope Stability	0.06		0.06	0.98%				
Erosion / Bank Caving	0.02	0.01	0.06	0.98%				
Crown Surface / Depressions / Rutting	0.63		0.63	10.31%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02	0.03	0.14	2.29%				
<i>Unit Totals:</i>	4.51	0.12	4.99	81.67%	0.12	0.09	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 02 Old River RB RD0544	Overall Unit Rating	Total Unit Miles						
	U	4.22						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	4.51	0.50	6.51	154.27%				
Trim / Thin Trees	0.02		0.02	0.47%				
Encroachments	0.01		0.01	0.24%	0.08	0.06		
Animal Control	0.15		0.15	3.56%				
Slope Stability	0.01		0.01	0.24%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.95%				
<i>Channels</i>								
Erosion / Bank Caving		0.01	0.04	0.95%				
Encroachments						0.01		
<i>Supplemental</i>								
DWR Erosion Survey	0.03		0.03	0.71%				
<i>Unit Totals:</i>	4.73	0.52	6.81	161.37%	0.08	0.07	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an induction of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/23/2013 - 04/23/2013		10/23/2013 - 10/23/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector					
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.				
	Start	End								Start	Photo				
1	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS	M				°	° 66				
					Ma					°	°				
											DWR ID: DWR_RD0544_01_s_2012_66				
2	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS	A				°	° 71				
					Ma					°	°				
											DWR ID: DWR_RD0544_01_s_2013_71				
3	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	WS	A				°	° 72				
					Ma					°	°				
											DWR ID: DWR_RD0544_01_s_2013_72				
4	0.00	0.63	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.			37.864359 °	37.864011 ° 61				
					Ma					-121.324939 °	-121.323562 °				
											DWR ID: DWR_RD0544_01_f_2013_61				
5	0.23	0.23	Earthen Levee	Encroachments	LS	M	EQ : Equipment Inspector Comments: Farm equipment and supplies stored at landside toe.			37.867590 °	37.867590 ° 4				
					Ma					-121.327813 °	-121.327813 ° Y				
											DWR ID: DWR_RD0544_01_s_2012_4				
6	0.41	0.45	Supplemental DWR Erosion Survey		WS	C	Inspector Comments: 08/13/2013: Repaired site. No new erosion found at the site. 08/07/2012: The site has been visited by boat survey. The site has been repaired with riprap protection. Rotten tree roots and minor erosion are visible immediately upstream of the site. 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. There are minor pockets of erosion lining the lower slope and undermining of the toe. There are annual grasses and emergent vegetation at the lower slope. Burrow holes were observed along the slope and persist throughout the 200-foot long site. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major change observed since last visit; despite dense vegetation, the bank continues to erode and slough; the levee toe is being undermined; note the tree on site; the site was previously rated "U". 10/21/2008: Undermining of the levee toe; rodent holes in several location; trees with roots partially exposed; sloughing on slope. [2013 Site ID:RD0544U01RM47.12]	Ma						37.864820 °	37.864820 ° 38
											-121.327200 °				
											DWR ID: DWR_RD0544_01_s_2012_0				
7	0.41	0.41	Earthen Levee	Trim / Thin Trees	LS	M	T2 : Thin trees to allow visibility of the ground and room to flood fight.	Ma		37.864958 °	37.864958 ° 2				
										-121.327142 °	-121.327142 °				
											DWR ID: DWR_RD0544_01_s_2012_2				
8	0.45	0.45	Earthen Levee	Encroachments	WS	M	MA : Material Inspector Comments: Old broken concrete pipes on waterward berm.	En		37.864713 °	37.864713 ° 1				
										-121.326708 °	-121.326708 °				
											DWR ID: DWR_RD0544_01_f_2013_1				

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Levee Mile	End						Start	End		
9	0.45	0.45	Earthen Levee	Encroachments	WS Ma	M	TR : Tree or limb Inspector Comments: Broken tree limbs on waterward slope and berm.	37.864713 ° -121.326708 °	37.864713 ° -121.326708 °	6	DWR ID: DWR_RD0544_01_f_2013_6
10	0.48	0.68	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.864578 ° -121.326210 °	37.863753 ° -121.322835 °	3	DWR ID: DWR_RD0544_01_s_2012_3
11	0.65	0.70	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	37.863935 ° -121.323341 °	37.863599 ° -121.322442 °	9	DWR ID: DWR_RD0544_01_s_2012_9
12	0.71	0.71	Earthen Levee	Vegetation	WS En	M	V6 : Landscaping	37.863575 ° -121.322367 °	37.863575 ° -121.322367 °	10	DWR ID: DWR_RD0544_01_s_2012_10
13	0.74	0.74	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4	Trim trees over roadway to at least 12 feet above ground level.	37.863380 ° -121.321897 °	37.863380 ° -121.321897 °	12	DWR ID: DWR_RD0544_01_s_2012_12
14	0.78	0.78	Earthen Levee	Trim / Thin Trees	WS Ma	M	T1 : Trim trees to at least five feet above ground level.	° °	° °	73	DWR ID: DWR_RD0544_01_f_2013_73
15	1.13	1.16	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.859423 ° -121.318328 °	37.859423 ° -121.318328 °	39	DWR ID: DWR_RD0544_01_s_2012_39
16	1.14	1.45	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.859287 ° -121.318333 °	37.854252 ° -121.324092 °	15	DWR ID: DWR_RD0544_01_s_2012_15
17	1.33	1.44	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.857042 ° -121.320480 °	37.855792 ° -121.321212 °	19	DWR ID: DWR_RD0544_01_s_2012_19
18	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.855778 ° -121.321206 °	37.855778 ° -121.321206 °	13	DWR ID: DWR_RD0544_01_s_2012_13
19	1.45	1.45	Earthen Levee	Trim / Thin Trees	WS Ma	N	T5 : Tree stumps.	37.855583 ° -121.321177 °	37.855583 ° -121.321177 °	14	DWR ID: DWR_RD0544_01_s_2012_14
20	1.49	1.55	Earthen Levee	Vegetation	LS A/W Ma	V2	Remove the wild growth other than native grasses from the levee slopes.	37.855087 ° -121.321127 °	37.854187 ° -121.321055 °	42	DWR ID: DWR_RD0544_01_s_2012_42
21	1.56	1.56	Earthen Levee	Slope Stability	WS Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damaged levee slope due to fishmen using slope as a ramp.	37.854081 ° -121.321268 °	37.854081 ° -121.321268 °	64	DWR ID: DWR_RD0544_01_f_2013_64
22	1.58	1.69	Earthen Levee	Vegetation	WSA/W Ma	V2	Remove the wild growth other than native grasses from the levee slopes.	37.854108 ° -121.321582 °	37.854837 ° -121.323280 °	43	DWR ID: DWR_RD0544_01_s_2012_43

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
23	1.73	1.85	Earthen Levee	Vegetation	LS A/W	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.		37.854530 °	37.852850 °	55	
								-121.323870 °	-121.324058 °		
										DWR ID: DWR_RD0544_01_s_2012_55	
24	1.80	1.80	Earthen Levee	Encroachments	CR C En	PI : Pipe Inspector Comments: Landowner installed drain pipe across levee without permit. Pipe is blocking access to levee.		37.853673 °	37.853673 °	36	
								-121.324261 °	-121.324261 °		
										DWR ID: DWR_RD0544_01_f_2012_36	
25	1.80	1.80	Earthen Levee	Encroachments	LS A/W	PR : Prunings Ma		37.853445 °	37.853445 °	20	
								-121.324227 °	-121.324227 °		
										DWR ID: DWR_RD0544_01_s_2012_20	
26	1.83	1.83	Earthen Levee	Slope Stability	LS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Slope damaged by vehicle traffic.		37.853188 °	37.853188 °	5	
								-121.324145 °	-121.324145 °	Y	
										DWR ID: DWR_RD0544_01_s_2013_5	
27	1.86	1.86	Earthen Levee	Encroachments	LS A/W	PR : Prunings Ma		37.852771 °	37.852771 °	21	
								-121.324014 °	-121.324014 °		
										DWR ID: DWR_RD0544_01_s_2012_21	
28	1.95	2.28	Earthen Levee	Vegetation	LS A/W	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.		37.851615 °	37.848105 °	44	
								-121.323210 °	-121.324857 °		
										DWR ID: DWR_RD0544_01_s_2012_44	
29	2.01	2.01	Supplemental DWR Erosion Survey		WS U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: Erosion is right at the inside of a river bend. Dense vegetation is visible at the site. [2013 Site ID: RD0544U01RM48.81]		37.850534 °	37.850534 °	46	
								-121.322285 °	-121.322285 °	Y	
										DWR ID:	
30	2.28	2.28	Earthen Levee	Erosion / Bank Caving	LS U Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.		37.847985 °	37.847985 °	23	
								-121.324837 °	-121.324837 °	Y	
										DWR ID: DWR_RD0544_01_s_2012_23	
31	2.29	2.33	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.		37.847973 °	37.847105 °	8	
								-121.324820 °	-121.324577 °		
										DWR ID: DWR_RD0544_01_s_2012_8	
32	2.31	2.38	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.		37.847686 °	37.846743 °	34	
								-121.324780 °	-121.324336 °		
										DWR ID: DWR_RD0544_01_s_2012_34	
33	2.34	2.34	Earthen Levee	Encroachments	LS M En	GA : Garbage Inspector Comments: Garbage and prunings at landside toe.		37.847108 °	37.847108 °	7	
								-121.324585 °	-121.324585 °	Y	
										DWR ID: DWR_RD0544_01_s_2012_7	
34	2.38	2.38	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.		37.846687 °	37.846687 °	74	
								-121.324278 °	-121.324278 °		
										DWR ID: DWR_RD0544_01_f_2013_74	
35	2.38	2.38	Earthen Levee	Trim / Thin Trees	LS M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.		37.846660 °	37.846660 °	65	
								-121.324240 °	-121.324240 °		
										DWR ID: DWR_RD0544_01_s_2013_65	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	N : Not Inspected/Rated	+ Issue Type
A : Acceptable		Ma : Maintenance Deficiency
M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
36	2.40	2.40	Earthen Levee	Encroachments	LS En	M	BU : Building Inspector Comments: Building has been in place for several years.	37.846508 °	37.846508 °	67	
								-121.324103 °	-121.324103 °	Y	
										DWR ID: DWR_RD0544_01_s_2013_67	
37	2.41	2.41	Earthen Levee	Encroachments	LS A/W En	EQ	: Equipment	37.846315 °	37.846315 °	68	
								-121.323875 °	-121.323875 °		
										DWR ID: DWR_RD0544_01_s_2013_68	
38	2.58	2.58	Earthen Levee	Slope Stability	LS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.844337 °	37.844337 °	60	
								-121.321853 °	-121.321853 °	Y	
										DWR ID: DWR_RD0544_01_s_2012_60	
39	2.86	2.86	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.841075 °	37.841075 °	22	
								-121.320205 °	-121.320205 °		
										DWR ID: DWR_RD0544_01_s_2012_22	
40	2.89	2.89	Earthen Levee	Encroachments	WS En	M	RA : Ramp	37.841032 °	37.841032 °	69	
								-121.319748 °	-121.319748 °		
										DWR ID: DWR_RD0544_01_s_2013_69	
41	2.94	2.94	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. 08/07/2012: Erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2013 Site ID: RD0544U01RM49.67]	37.840697 °	37.840697 °	77	
								-121.318252 °	-121.318252 °	Y	
										DWR ID:	
42	2.98	3.21	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.840485 °	37.837225 °	47	
								-121.318390 °	-121.317408 °		
										DWR ID: DWR_RD0544_01_s_2012_47	
43	2.98	2.98	Earthen Levee	Encroachments	LS Ma	U	PI : Pipe	37.840483 °	37.840483 °	16	
							Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm.	-121.318370 °	-121.318370 °	Y	
										DWR ID: DWR_RD0544_01_s_2012_16	
44	2.98	2.98	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E2 : Schedule repair of erosion site prior to the next inspection.	°	°	75	
							Inspector Comments: Hole on levee crown shoulder. Hole is 16"x18"x24. Hole is undermining back toward landward slope.	°	°	Y	
										DWR ID: DWR_RD0544_01_f_2013_75	
45	3.15	3.15	Earthen Levee	Slope Stability	WS Ma	M	S1 : Repair slope instability.	37.837929 °	37.837929 °	76	
							Inspector Comments: Slope damaged extends from levee slope to shoulder.	-121.317663 °	-121.317663 °	Y	
										DWR ID: DWR_RD0544_01_f_2013_76	
46	3.19	3.19	Earthen Levee	Slope Stability	WS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.837530 °	37.837530 °	62	
								-121.317510 °	-121.317510 °	Y	
										DWR ID: DWR_RD0544_01_s_2012_62	
47	3.25	3.87	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.836763 °	37.829195 °	49	
								-121.317307 °	-121.311918 °		
										DWR ID: DWR_RD0544_01_s_2012_49	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating			+ Issue Type
A : Acceptable	N : Not Inspected/Rated		Ma : Maintenance Deficiency
M : Minimally Acceptable	C : Corrected		Ob : Design & System Obsolescence
U : Unacceptable	A/W : Acceptable but Monitor & Maintain		En : Enforcement

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile End	Start						End	Photo	
48	3.26	3.29	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.836615 ° -121.317285 °	37.836133 ° -121.317153 °	48
										DWR ID: DWR_RD0544_01_s_2012_48
49	3.31	3.31	Earthen Levee	Encroachments	WS En	M	RA : Ramp Inspector Comments: Landowner has cut new ramp on waterside slope.	37.835951 ° -121.317062 °	37.835951 ° -121.317062 °	37
										DWR ID: DWR_RD0544_01_s_2012_37
50	3.32	3.32	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E1 : Note and monitor erosion site. Inspector Comments: Erosion located on waterside shoulder. Erosion caused by rain runoff.	37.835815 ° -121.316997 °	37.835815 ° -121.316997 °	50
										DWR ID: DWR_RD0544_01_s_2012_50
51	3.51	3.51	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.833583 ° -121.314968 °	37.833583 ° -121.314968 °	56
										DWR ID: DWR_RD0544_01_s_2012_56
52	3.52	4.72	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.833432 ° -121.314792 °	37.821853 ° -121.319992 °	51
										DWR ID: DWR_RD0544_01_s_2012_51
53	3.95	3.95	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.828120 ° -121.311504 °	37.828120 ° -121.311504 °	24
										DWR ID: DWR_RD0544_01_s_2012_24
54	3.97	4.34	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C	C3 : Add appropriate gravel or road base. Grade and compact.	37.827800 ° -121.311332 °	37.824953 ° -121.314988 °	63
										DWR ID: DWR_RD0544_01_s_2012_63
55	4.06	4.09	Earthen Levee	Animal Control	WS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.826621 ° -121.310820 °	37.826315 ° -121.311024 °	11
										DWR ID: DWR_RD0544_01_s_2012_11
56	4.18	4.32	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.825762 ° -121.312393 °	37.825005 ° -121.314982 °	52
										DWR ID: DWR_RD0544_01_s_2012_52
57	4.21	4.22	Supplemental DWR Erosion Survey		WS Ma	M	Inspector Comments: 08/13/2013: The erosion has been caused by irrigation pipe. [2013 Site ID:RD0544U01RM51.04]	37.825248 ° -121.313856 °	37.825248 ° -121.313856 °	78
										DWR ID:
58	4.28	4.28	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.825517 ° -121.314160 °	37.822955 ° -121.316835 °	57
										DWR ID: DWR_RD0544_01_s_2012_57
59	4.32	4.32	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: This erosion has been caused by instability of the levee . Larger trees exist downstream of the erosion site. [2013 Site ID:RD0544U01RM51.09]	37.824360 ° -121.314360 °	37.824360 ° -121.314360 °	79
										DWR ID:
60	4.32	4.32	Earthen Levee	Slope Stability	WS Ma	C	S1 : Repair slope instability.	37.824995 ° -121.314983 °	37.824995 ° -121.314983 °	53
							Inspector Comments: Ten inch pipe, possibly broken.			
										DWR ID: DWR_RD0544_01_s_2012_53

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile End	Category						Location End	Rating Photo	
61	4.32	4.32	Earthen Levee	Encroachments	LS	A/W	GA : Garbage Ma Inspector Comments: Old concrete pipes on landside toe should be removed.	37.825151 °	37.825151 °	25 -121.314826 ° -121.314826 °
										DWR ID: DWR_RD0544_01_s_2012_25
62	4.33	4.33	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A/W	C2 : Repair depressions or ruts in the crown or slope. Ma Inspector Comments: Depression across levee crown	37.825035 °	37.825035 °	58 -121.314967 ° -121.314967 ° Y
										DWR ID: DWR_RD0544_01_s_2012_58
63	4.34	4.34	Earthen Levee	Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability. Ma	37.824943 °	37.824943 °	59 -121.315008 ° -121.315008 °
										DWR ID: DWR_RD0544_01_s_2012_59
64	4.44	4.72	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Ma	37.823617 °	37.821855 °	54 -121.315550 ° -121.319995 °
										DWR ID: DWR_RD0544_01_s_2012_54
65	4.53	4.53	Earthen Levee	Vegetation	LS	U	V4 : Elderberries are blocking visibility and flood fight capability. Ma	37.822934 °	37.822934 °	41 -121.316870 ° -121.316870 ° Y
										DWR ID: DWR_RD0544_01_s_2012_41
66	4.70	4.70	Earthen Levee	Encroachments	LS	M	GA : Garbage Ma	37.821901 °	37.821901 °	27 -121.319683 ° -121.319683 °
										DWR ID: DWR_RD0544_01_s_2012_27
67	4.75	4.75	Earthen Levee	Slope Stability	LS	M	S1 : Repair slope instability. Ma	37.821626 °	37.821626 °	28 -121.320471 ° -121.320471 ° Y
										DWR ID: DWR_RD0544_01_s_2012_28
68	4.75	4.75	Earthen Levee	Animal Control	CR	A/W	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Ma	37.821626 °	37.821626 °	29 -121.320471 ° -121.320471 °
										DWR ID: DWR_RD0544_01_s_2012_29
69	4.75	4.78	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Ma	37.821592 °	37.821253 °	26 -121.320617 ° -121.320927 °
										DWR ID: DWR_RD0544_01_s_2012_26
70	4.78	4.78	Earthen Levee	Encroachments	LS	M	BU : Building En Inspector Comments: New unauthorized pump shed on landside toe.	°	°	45 °
										DWR ID: DWR_RD0544_01_s_2012_45
71	4.86	4.86	Earthen Levee	Encroachments	LS	A/W	PR : Prunings Ma Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.	37.820227 °	37.820227 °	30 -121.321115 ° -121.321115 °
										DWR ID: DWR_RD0544_01_s_2012_30
72	4.86	4.86	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Ma	37.820081 °	37.820081 °	31 -121.321043 ° -121.321043 °
										DWR ID: DWR_RD0544_01_s_2012_31
73	4.94	4.94	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Ma	37.819249 °	37.819249 °	32 -121.320460 ° -121.320460 °
										DWR ID: DWR_RD0544_01_s_2012_32
74	4.96	5.05	Earthen Levee	Encroachments	LS	U	DT : Ditch En Inspector Comments: Agricultural ditch on landside toe.	°	37.818125 °	163 ° -121.319070 ° Y
										DWR ID: DWR_RD0544_01_s_2012_163

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
75	5.00	5.30	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.818718 ° -121.319508 °	33 Y
										DWR ID: DWR_RD0544_01_s_2012_33	
76	5.05	5.05	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			37.818152 ° -121.319095 °	17
										DWR ID: DWR_RD0544_01_s_2012_17	
77	5.39	5.39	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			37.813659 ° -121.319614 °	35
										DWR ID: DWR_RD0544_01_s_2012_35	
78	5.54	5.60	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.			37.812033 ° -121.319737 °	18
										DWR ID: DWR_RD0544_01_s_2012_18	
79	5.69	5.69	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.			37.811199 ° -121.322176 °	40
										DWR ID: DWR_RD0544_01_s_2012_40	
80	5.87	5.87	Earthen Levee	Encroachments	LS Ma	M	TR : Tree or limb			37.811068 ° -121.325412 °	70
										DWR ID: DWR_RD0544_01_s_2013_70	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at equipment along landside toe.	
richard_f_20130930_924.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at equipment along landside toe.	
richard_f_20130930_925.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.48
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at overgrown on landward and waterward slopes.	
richard_f_20131030_136.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.70
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at landscaping on landward slope.	
richard_f_20131030_137.JPG	



Levee Mile Report Line	21
Start Levee Mile	1.56
End Levee Mile	1.56
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at waterward slope.	
richard_f_20131030_138.JPG	



Levee Mile Report Line	21
Start Levee Mile	1.56
End Levee Mile	1.56
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at damaged waterward slope.	
richard_f_20131030_139.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking east at landward slope damaged by vehicle traffic.	
richard_f_20130930_926.JPG	



Levee Mile Report Line	29
Start Levee Mile	2.01
End Levee Mile	2.01
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion.	
SJR2013_RD0544U01RM48.81_3.jpg	



Levee Mile Report Line	30
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at erosion under irrigation pipe on landside slope.	
richard_f_20130930_937.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion under irrigation pipe on landside slope.	
richard_f_20130930_938.jpg	



Levee Mile Report Line	33
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage at landside toe.	
richard_f_20130930_927.jpg	



Levee Mile Report Line	36
Start Levee Mile	2.40
End Levee Mile	2.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at building at landward toe.	
richard_f_20130930_961.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	2.58
End Levee Mile	2.58
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at slope damage on landside slope.	
<i>richard_f_20130930_956.jpg</i>	



Levee Mile Report Line	38
Start Levee Mile	2.58
End Levee Mile	2.58
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at slope damage on landside slope.	
<i>richard_f_20130930_957.jpg</i>	



Levee Mile Report Line	41
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Close view of the site. Erosion has worsened and more vegetation is visible.	
<i>SJR2013_RD0544U01RM49.67_2.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at landowner installing temporary pump system without permit and damage to waterside slope.	
richard_f_20130930_928.jpg	



Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pump and irrigation ramp on levee waterside and crown.	
richard_f_20130930_929.jpg	



Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at damage landside slope caused by vehicle traffic.	
richard_f_20130930_930.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at pipe and pipe ramp on landside and crown of levee.	
richard_f_20130930_931.jpg	



Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at erosion caused by leaking pipe on waterside slope.	
richard_f_20130930_932.jpg	



Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at unauthorized pump system on waterside slope.	
richard_f_20130930_933.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at erosion caused by leaking hose on waterward berm. (Spring 2013)	
richard_f_20130930_934.JPG	



Levee Mile Report Line	44
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking at large hole on waterward shoulder.	
richard_f_20131030_140.JPG	



Levee Mile Report Line	44
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking at hole on waterward shoulder.	
richard_f_20131030_141.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	44
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking at hole approx. 16" deep on waterward shoulder.	
richard_f_20131030_142.JPG	



Levee Mile Report Line	45
Start Levee Mile	3.15
End Levee Mile	3.15
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at slope damage on waterward slope.	
richard_f_20131030_143.JPG	



Levee Mile Report Line	46
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at slope damaged by foot traffic near pump house on waterside of levee.	
richard_f_20130930_958.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	3.97
End Levee Mile	4.34
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking south at one of several sites needing gravel or road base on levee crown.	
richard_f_20130930_959.jpg	



Levee Mile Report Line	57
Start Levee Mile	4.21
End Levee Mile	4.22
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Close view of the site.	
SJR2013_RD0544U01RM51.04_2.jpg	



Levee Mile Report Line	59
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking from upstream at the site.	
SJR2013_RD0544U01RM51.09_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	62
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking south at depression greater than 6" on waterside shoulder.	
richard_f_20130930_954.jpg	



Levee Mile Report Line	62
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking southeast at depression on waterside shoulder.	
richard_f_20130930_955.jpg	



Levee Mile Report Line	65
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20130930_946.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	67
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at erosion around irrigation pipe on landside	
richard_f_20130930_939.jpg	



Levee Mile Report Line	67
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at erosion around irrigation pipe on landside slope.	
richard_f_20130930_940.jpg	



Levee Mile Report Line	70
Start Levee Mile	4.78
End Levee Mile	4.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at a unauthorized pump house on landside toe.	
richard_f_20130930_947.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	74
Start Levee Mile	4.96
End Levee Mile	5.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at ditch on landside slope and toe.	
richard_f_20130930_962.jpg	



Levee Mile Report Line	75
Start Levee Mile	5.00
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense veg. on landside slope and toe.	
richard_f_20130930_941.jpg	



Levee Mile Report Line	78
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest on elderberries on landside slope and toe.	
richard_f_20130930_935.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/23/2013 10/23/2013	Richard Willoughby

Levee Mile Report Line	78
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20130930_936.jpg	



* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/23/2013 - 04/23/2013		10/23/2013 -	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Jerry Robinson		Jerry Robinson	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Old River								Right	4.22	10/23/2013	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.		
	Start	End						Start	End			
1	0.32	0.37	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.808972 °	37.809442 °	3	-121.333720 °	-121.334415 °
											DWR ID: DWR_RD0544_02_s_2012_3	
2	0.41	0.41	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.809788 °	37.809788 °	4	-121.334727 °	-121.334727 °
											DWR ID: DWR_RD0544_02_s_2012_4	
3	0.43	1.13	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.810250 °	37.819452 °	1	-121.334933 °	-121.333755 °
											DWR ID: DWR_RD0544_02_s_2012_1	
4	0.43	1.50	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.810253 °	37.822285 °	2	-121.334930 °	-121.339252 °
											DWR ID: DWR_RD0544_02_s_2012_2	
5	0.52	0.52	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.811592 °	37.811592 °	11	-121.335018 °	-121.335018 °
											DWR ID: DWR_RD0544_02_s_2012_11	
6	0.74	0.74	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.814333 °	37.814333 °	5	-121.334592 °	-121.334592 °
											DWR ID: DWR_RD0544_02_s_2012_5	
7	0.79	0.79	Interior Drainage & Piping Systems	Erosion Areas	WS Ma	U	Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.	37.815102 °	37.815102 °	8	-121.333898 °	-121.333898 °
											DWR ID: DWR_RD0544_02_s_2012_8	
8	1.02	1.02	Earthen Levee	Encroachments	WS En	M	GA : Garbage	37.818100 °	37.818100 °	6	-121.332750 °	-121.332750 °
											DWR ID: DWR_RD0544_02_s_2012_6	
9	1.14	1.14	Earthen Levee	Encroachments	LS En	A/W	PR : Prunings	37.819530 °	37.819530 °	20	-121.333827 °	-121.333827 °
							Inspector Comments: Rubber tires and other items have been added to pruning pile as of May 2012.				DWR ID: DWR_RD0544_02_s_2012_20	
10	1.15	1.21	Earthen Levee	Encroachments	LS En	M	FE : Fence	37.819560 °	37.820083 °	25	-121.333893 °	-121.334812 °
											DWR ID: DWR_RD0544_02_s_2012_25	
11	1.17	1.23	Earthen Levee	Encroachments	LS En	U	AV : Abandoned vehicles	37.819830 °	37.820235 °	18	-121.334233 °	-121.335268 °
							Inspector Comments: Vehicles and farm equipment stored on landside for several years. Area is defined a oversize levee.				DWR ID: DWR_RD0544_02_s_2012_18	
12	1.23	1.23	Earthen Levee	Encroachments	LS En	A/W	PR : Prunings	37.820235 °	37.820235 °	7	-121.335127 °	-121.335127 °
											DWR ID: DWR_RD0544_02_s_2012_7	
13	1.36	1.50	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.821095 °	37.822285 °	38	-121.337185 °	-121.339252 °
											DWR ID: DWR_RD0544_02_s_2012_38	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River								Right	4.22	10/23/2013	Richard Willoughby
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
14	1.39	1.39	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control bamboo on waterside slope.	37.821323 ° -121.337725 °	37.821323 ° -121.337725 °	14	
											DWR ID: DWR_RD0544_02_s_2012_14
15	1.40	1.40	Earthen Levee	Encroachments	LS A/W En	PI	Slope PI : Pipe Inspector Comments: Pipe should be removed or properly abandoned.	37.821463 ° -121.337900 °	37.821463 ° -121.337900 °	21	
											DWR ID: DWR_RD0544_02_s_2012_21
16	1.41	1.41	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.821423 ° -121.337878 °	37.821423 ° -121.337878 °	10	
											DWR ID: DWR_RD0544_02_s_2012_10
17	1.44	1.44	Earthen Levee	Slope Stability	LS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.821697 ° -121.338397 °	37.821697 ° -121.338397 °	22	
											DWR ID: DWR_RD0544_02_s_2012_22
18	1.47	1.47	Earthen Levee	Animal Control	WS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.821954 ° -121.338715 °	37.821954 ° -121.338715 °	28	
											DWR ID: DWR_RD0544_02_s_2012_28
19	1.48	1.48	Earthen Levee	Encroachments	LS En	M	TR : Tree or limb Inspector Comments: Dead tree and limbs should be removed from landside shoulder and slope.	37.822082 ° -121.338932 °	37.822082 ° -121.338932 °	23	
											DWR ID: DWR_RD0544_02_s_2012_23
20	1.55	2.11	Earthen Levee	Vegetation	WSA/W En	V2	: Remove the wild growth other than native grasses from the levee slopes.	37.820863 ° -121.341285 °	37.819393 ° -121.344428 °	26	
											DWR ID: DWR_RD0544_02_s_2012_26
21	1.89	1.89	Earthen Levee	Slope Stability	WS Ma	C	S1 : Repair slope instability. Inspector Comments: Caving on waterside shoulder approx.12-18" deep 24-36" in diameter.	37.818002 ° -121.341645 °	37.818002 ° -121.341645 °	16	
											DWR ID: DWR_RD0544_02_s_2012_16
22	2.04	2.04	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.818733 ° -121.343340 °	37.818733 ° -121.343340 °	44	
											DWR ID: DWR_RD0544_02_s_2012_44
23	2.05	2.20	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.818842 ° -121.343520 °	37.820193 ° -121.345525 °	39	
											DWR ID: DWR_RD0544_02_s_2012_39
24	2.11	2.12	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.819337 ° -121.344275 °	37.819460 ° -121.344492 °	13	
											DWR ID: DWR_RD0544_02_s_2012_13
25	2.25	2.25	Earthen Levee	Animal Control	WS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.820697 ° -121.346050 °	37.820697 ° -121.346050 °	32	
											DWR ID: DWR_RD0544_02_s_2012_32
26	2.28	2.38	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.821096 ° -121.346418 °	37.821945 ° -121.347897 °	33	
											DWR ID: DWR_RD0544_02_s_2012_33
27	2.29	2.29	Earthen Levee	Vegetation	LS A/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.	37.821240 ° -121.346553 °	37.821240 ° -121.346553 °	40	
											DWR ID: DWR_RD0544_02_s_2012_40

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 02 Old River							Right	4.22	10/23/2013	Richard Willoughby		
LMR No	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	
28	2.34	2.34	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS Ma	M	Inspector Comments: 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2013 Site ID:RD0544U02RM33.21]			37.821763 ° -121.347275 °	37.821763 ° -121.347275 °	9 Y
29	2.35	2.35	Channels Caving	Erosion / Bank Caving	WS Ma	U	Inspector Comments: Large erosion and beaver activity at waterside toe of levee.			37.821763 ° -121.347275 °	37.821763 ° -121.347275 °	24 Y
30	2.36	3.29	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.821840 ° -121.347428 °	37.819198 ° -121.359940 °	DWR ID: DWR_RD0544_02_s_2012_41
31	2.48	3.29	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.821037 ° -121.349050 °	37.819200 ° -121.359943 °	DWR ID: DWR_RD0544_02_s_2012_42
32	2.64	2.64	Channels	Encroachments	WS En	U	Inspector Comments: Remove dilapidated pump platform from river.			37.818872 ° -121.350392 °	37.818872 ° -121.350392 °	17 Y
33	2.65	2.65	Earthen Levee	Encroachments	CR Ma	M	PI : Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.			37.818867 ° -121.350393 °	37.818867 ° -121.350393 °	15 Y
34	2.65	2.67	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS Ma	M	Inspector Comments: 10/11/2013: No significant change observed. 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2013 Site ID:RD0544U02RM32.91]			37.817760 ° -121.350850 °	37.817760 ° -121.350850 °	12 Y
35	2.76	3.23	Earthen Levee	Vegetation	LS Ma	U	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.817747 ° -121.351578 °	37.817497 ° -121.357490 °	43 Y
36	3.43	3.46	Earthen Levee	Animal Control	WS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.			37.819813 ° -121.362120 °	37.819717 ° -121.362733 °	30 DWR ID: DWR_RD0544_02_s_2013_30
37	3.53	3.56	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside slope.			37.819576 ° -121.364056 °	37.819530 ° -121.364653 °	36 Y
38	3.57	3.57	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.			° °	° °	19
39	3.61	4.22	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.819443 ° -121.365305 °	37.822442 ° -121.374608 °	47 DWR ID: DWR_RD0544_02_s_2012_47

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile	Category						Start	End	
40	3.64	4.22	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		37.819408 °	37.822442 °	48
								-121.366005 °	-121.374607 °	
										DWR ID: DWR_RD0544_02_s_2012_48

* Location LS : Land Side WS : Water Side CR : Crown

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberries on landside slope and toe.	
richard_f_20130930_963.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope.	
richard_f_20130930_964.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberry on landside slope. (Spring 2012)	
richard_f_20130930_965.jpg	



* Location LS : Land Side WS : Water Side CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.74
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20130930_966.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at top of siphon on waterside shoulder with 3' of caving around pipe.	
richard_f_20130930_968.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at caving around 10" siphon pipe on waterside shoulder.	
richard_f_20130930_969.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at depression greater than 6" on waterside shoulder.	
richard_f_20130930_970.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at depression greater than 6" around siphon on waterside shoulder.	
richard_f_20130930_971.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at top of siphon with a depression greater than 6" on waterside shoulder.	
richard_f_20130930_972.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking west at caving around siphon on waterside shoulder. (Spring 2012)	
richard_f_20130930_973.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at caving around siphon on waterside shoulder.(Spring 2012)	
richard_f_20130930_974.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking east at caving around siphon on waterside shoulder. (Spring 2012)	
richard_f_20130930_975.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at garbage on waterside shoulder and slope.	
richard_f_20130930_967.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at pruning pile on landside slope.	
richard_f_20130930_993.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage and pruning pile at landside toe.(Spring 2012)	
richard_f_20130930_994.jpg	



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+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at prunings and grass clippings on landward slope.	
richard_f_20131030_144.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at vehicles and farm equipment stored on landside landing.	
richard_f_20130930_990.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at vehicles and farm equipment stored on landside landing.	
richard_f_20130930_991.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at farm equipment, vehicles, and other items stored on landside landing.	
richard_f_20130930_992.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pipe on landside slope.	
richard_f_20130930_995.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pipe and erosion just above pipe on landside slope and shoulder.	
richard_f_20130930_996.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at east end of pipe on waterside slope.	
richard_f_20130930_997.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20130930_978.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at elderberries on landside slope.	
richard_f_20130930_979.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northwest at slope damage caused by vehicle traffic.	
richard_f_20130930_998.jpg	



Levee Mile Report Line	19
Start Levee Mile	1.48
End Levee Mile	1.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at dead tree and tree limbs on landside shoulder and slope.	
richard_f_20130930_999.jpg	



Levee Mile Report Line	24
Start Levee Mile	2.11
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberries on landside slope and toe.	
richard_f_20130930_982.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	28
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion site. View is partially blocked by the pump structure and vegetation.	
SJR2013_RD0544U02RM33.21_1.jpg	



Levee Mile Report Line	29
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking south at breaver hole at waterside toe.	
richard_f_20130930_000.jpg	



Levee Mile Report Line	29
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking north at erosion on waterside slope.	
richard_f_20130930_001.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking south at river erosion at waterside toe near pumping station.	
richard_f_20130930_002.jpg	



Levee Mile Report Line	32
Start Levee Mile	2.64
End Levee Mile	2.64
Location	Water Side
Category	Channels
Item	Encroachments
Looking east at dilapidated pump platform.	
richard_f_20130930_989.jpg	



Levee Mile Report Line	33
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 2.65, landside view.	
richard_f_20130930_983.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	2.65
End Levee Mile	2.67
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of pocket erosion. Note the vegetation and riprap at the site.

SJR2013_RD0544U02RM32.91_1.jpg



Levee Mile Report Line	35
Start Levee Mile	2.76
End Levee Mile	3.23
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south a dense vegetation on landward and waterward slope.

richard_f_20131030_146.JPG



Levee Mile Report Line	37
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Loooking southwest at overgrown cactus on landside slope.

richard_f_20130930_003.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/23/2013	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at cactus on landside slope and toe.	
richard_f_20130930_004.jpg	



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